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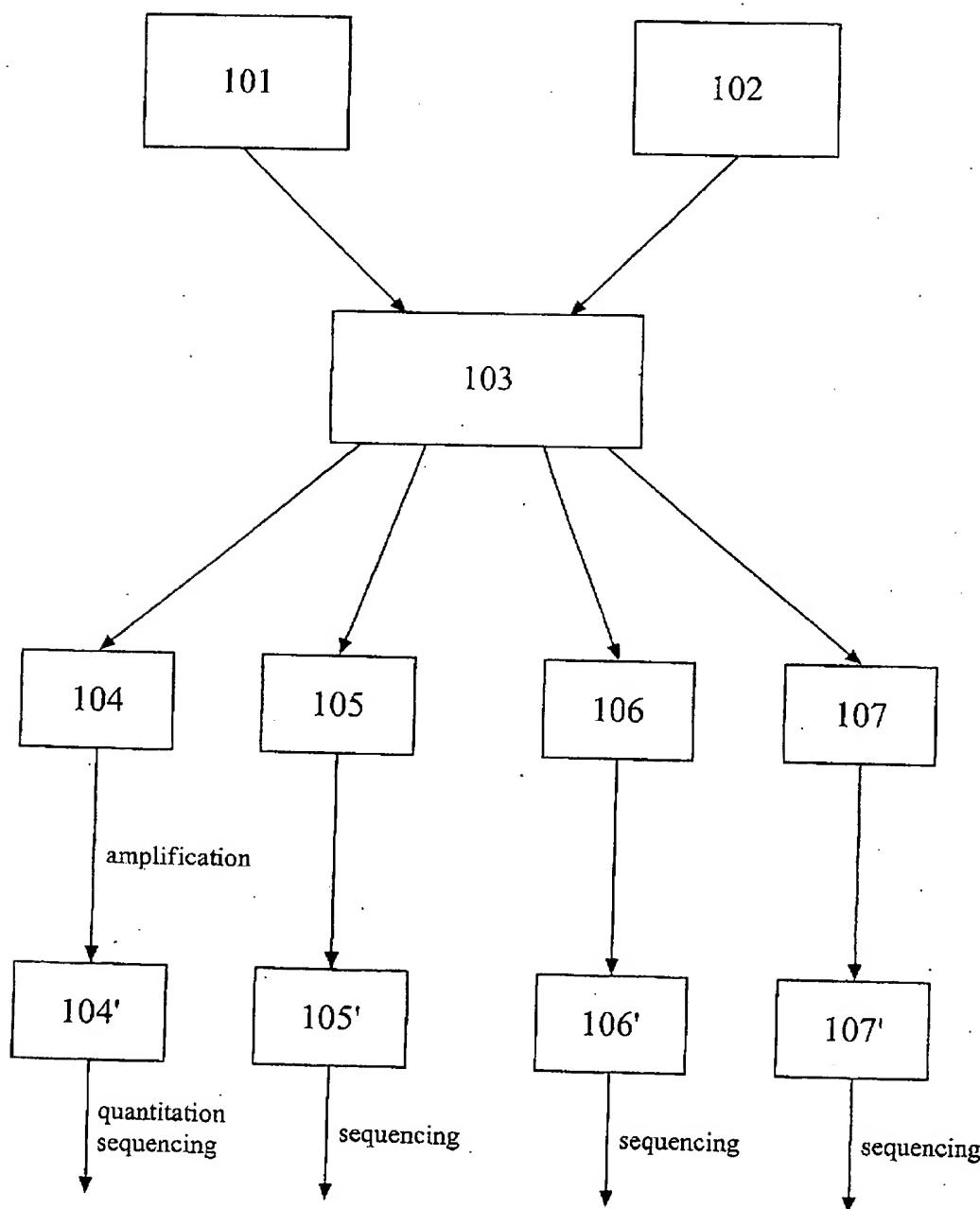


FIG. 1



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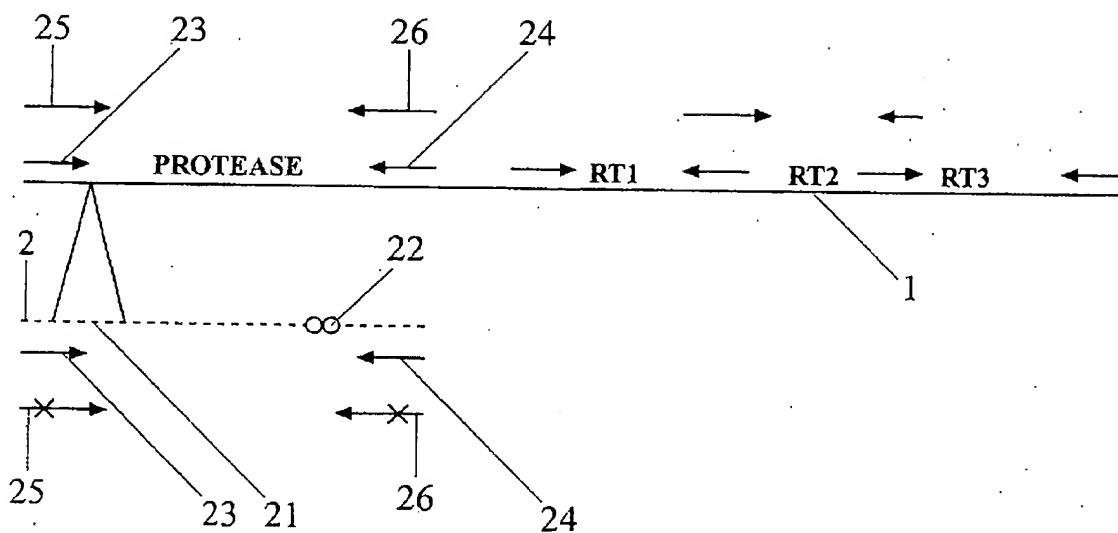


FIG. 2A

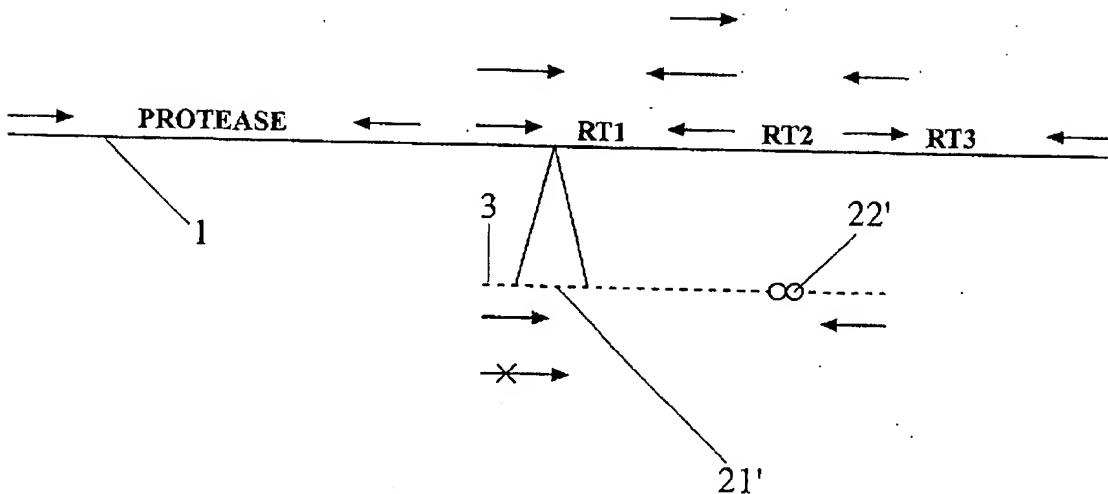
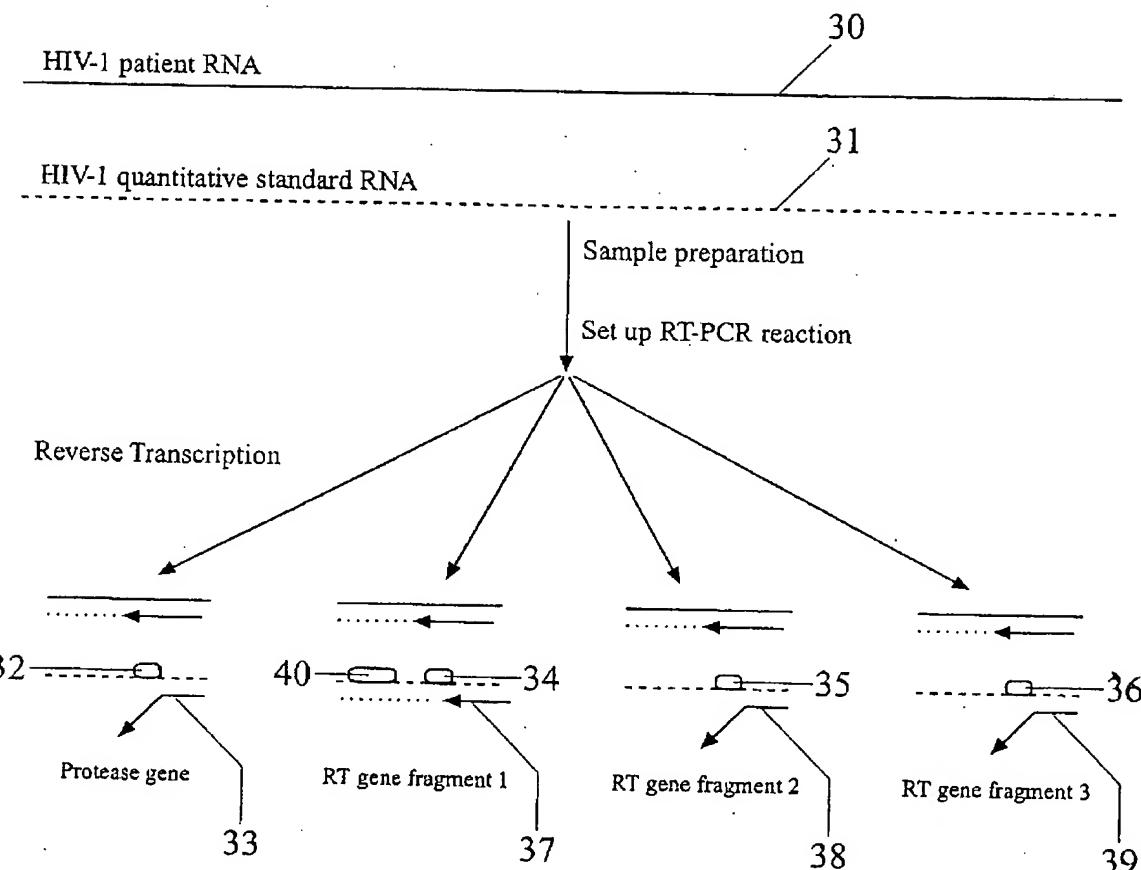
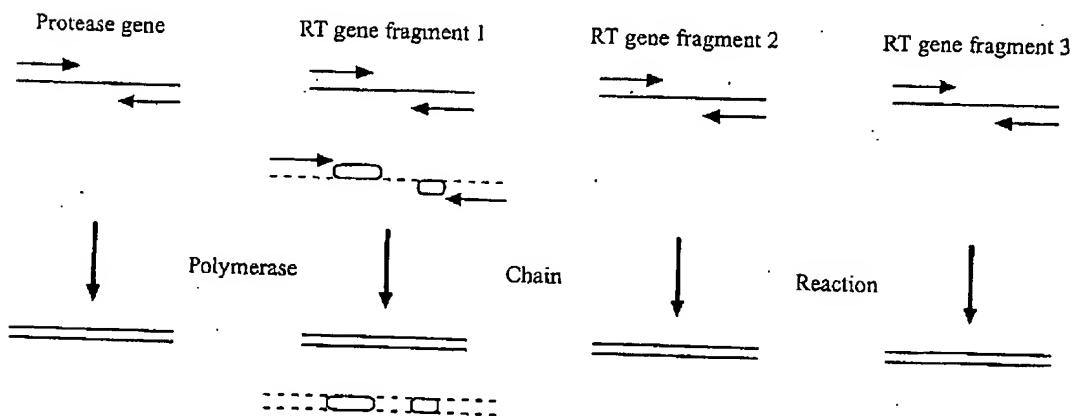


FIG. 2B



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**FIG. 3A****FIG. 3B**



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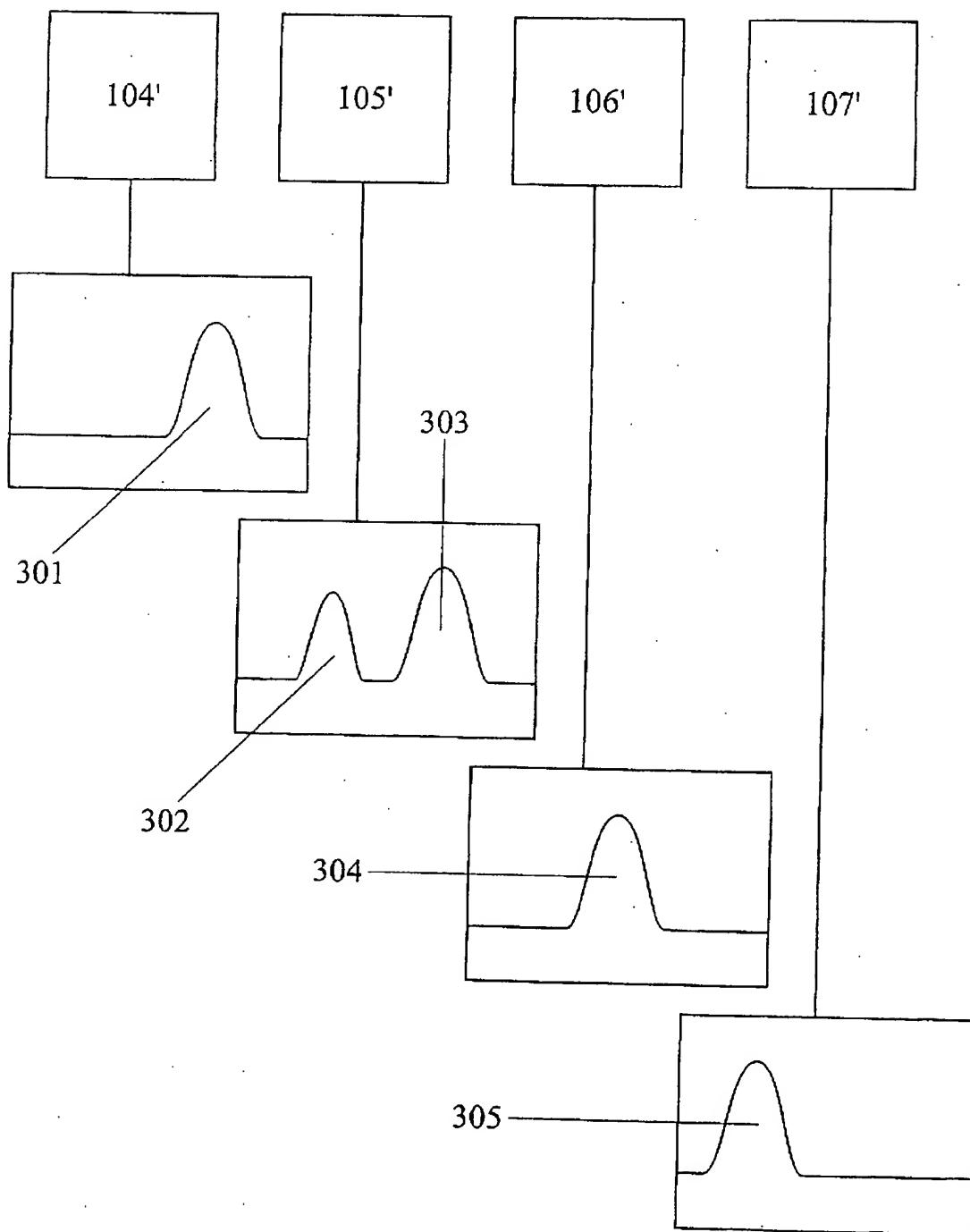


FIG. 3C



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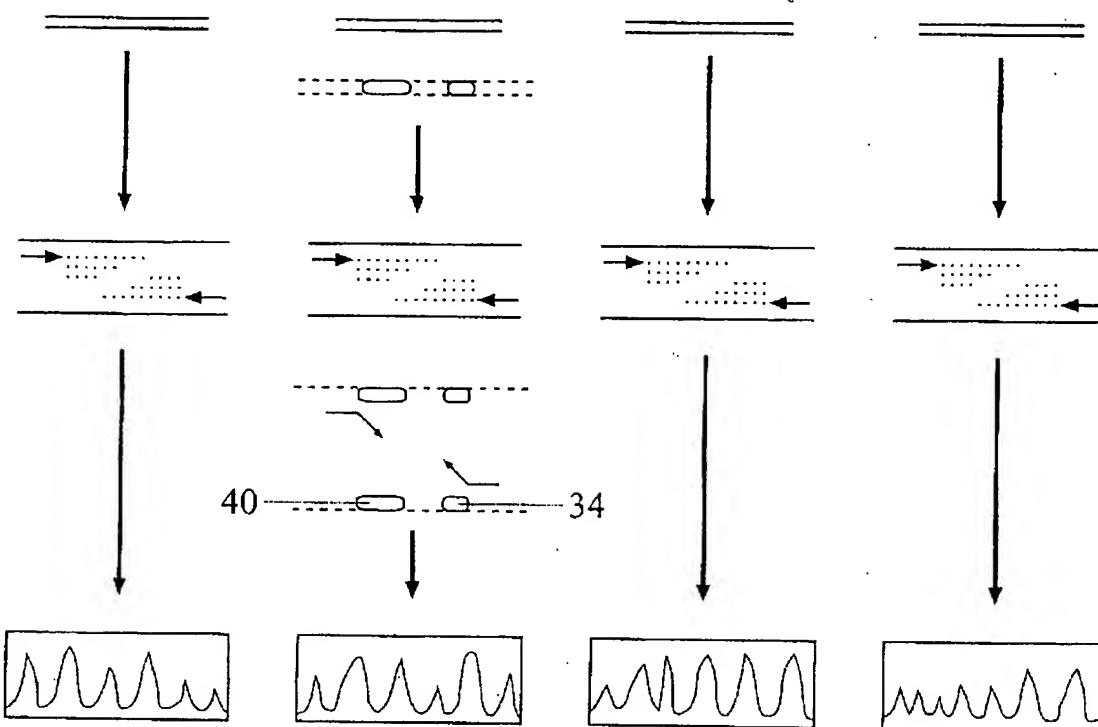


FIG. 3D

Not I restriction site for linearizing pBKBH10S for production of ~9 kB cRNA transcripts

T7 Promoter - used by T7 RNA polymerase to transcribe sense strand HIV-1 RNA sequences.

+1

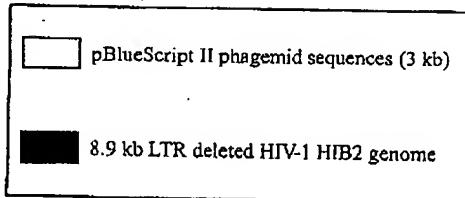
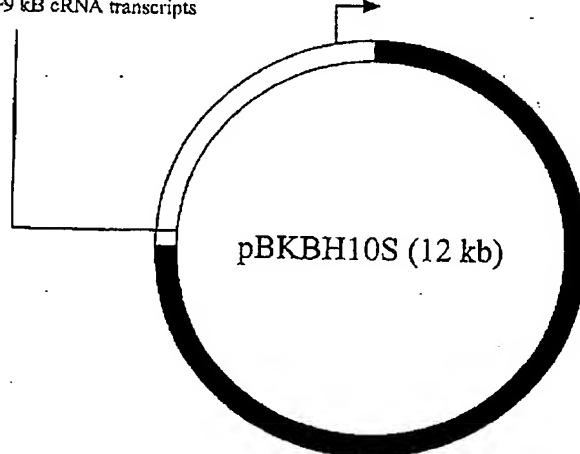


FIG. 4

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5' to 3' direction of HIV-1 sense sequence →

RT562F-A primer (for sequencing)

RT558F primer (for RT-PCR)

5' aaaagttaaacaaatggccattgacag aaaaaaaaaaaaaggcatttagtagaaatttgtacagagatggaaaagga 3' base pairs
 3' ttttcaatccgttaccggtaactgtc ttcttttcatttcgtataatcatctttaaacatgtctcacctttct 5' 2606 to 2680

tccaaaaataatagca
aggattttatccatcg

16 bp insertion added between nucleotides 2631 and 2632.
 The four terminal 3' nucleotides sequencing primer RT562F-A do not hybridize to sequences in the insert.

FIG. 5

5' to 3' direction of HIV-1 sense sequence →

gg → cc
 cc 3007/8 gg

Mutagenesis of nucleotides 3007 and 3008 to prevent primer extension of RT959R sequencing primer

5' tcagtacaatgtgttccacaggat gg aaaggatcaccagcaatattccaaagtgc base pairs
 3' agtcatgttacacgaaagggtcccta cc ttccctagtggtcgtataaggttcatacg 2981 to 3038

RT964-2-R primer (for RT-PCR)

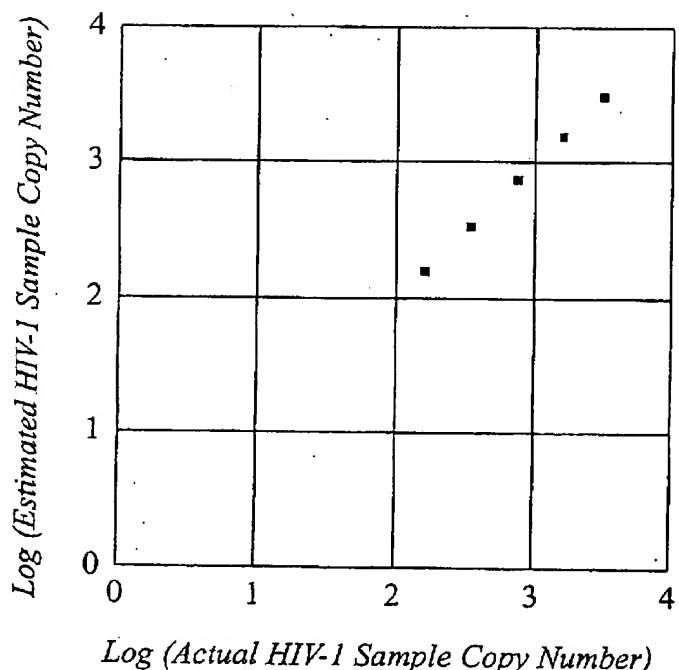
RT959R primer (for sequencing)

FIG. 6



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Estimated vs. Actual HIV-1 Sample Copy Number



Regression Statistics

slope: 1.060750
error of slope: 0.032348
y-Int.: -0.204487
error of y-Int.: 0.094912
x mean: 2.903090
y mean: 2.874965
x Std. Dev.: 0.475971
y Std. Dev.: 0.505588
R value: 0.998612

FIG. 7